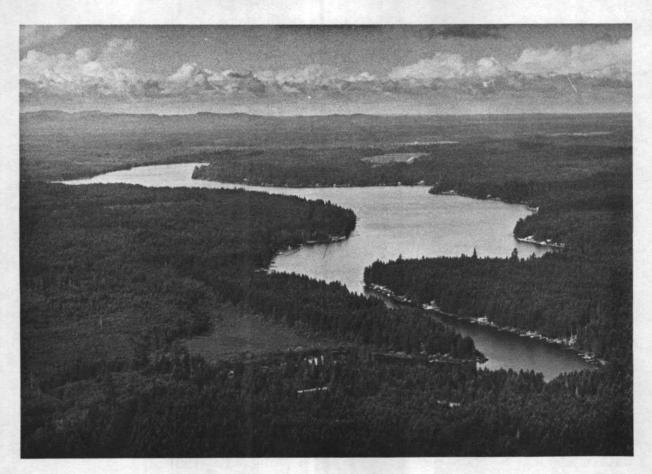
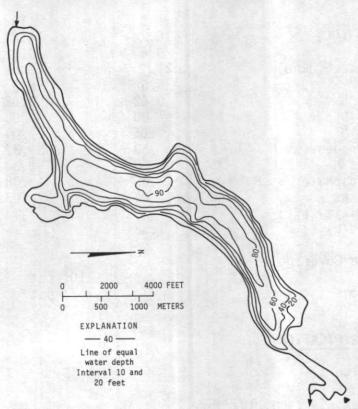
MASON LAKE	MASON COUNTY	WRTA 1	Λ
PINSON EARE	IMASUN CUUNTT	WKIA I	4

T22N-R02W-34 LATITUDE 470 21' 14" LONGITUDE 1220 55' 17"

PHYSICAL DATA			CULTURAL DATA		
Drainage area Altitude	20.2 mi		Residential Development	95	pct
Lake Area	194 ft 1,000 ac	cres	Number of Nearshore Homes	642	
Lake Volume Mean Depth	49,000 ac 48 ft	cre-ft t	Land Use in Drainage Basin		
Maximum Depth	90 ft	-	-		
Shoreline Length	ll mi	1	Residential-Urban	0	pc t
Shoreline Configurati			Residential-Suburban	3	pct
Development of Volume			Agricultural	0	pct
Bottom Slope	1.2 pc	ct	Forest or Unproductive	89	pct
Surface Inflow	Yes		Lake Surface	8	pct
Surface Outflow	Yes		=	•	pot
			Public Boat Access to Lake	•	Yes

Date	June	12,	1981
Depth (ft) Water Temperature (oC) Dissolved Oxygen Specific Conductance (umho) pH (units) Total Nitrate, as N Total Nitrite, as N Total Ammonia, as N Total Organic Nitrogen, as N Total Nitrogen, as N Dissolved Orthophosphate, as P Total Phosphorus, as P Secchi-Disc Visibility (ft) Chlorophyll a (ug/L)	3 16.2 9.6 43 7.1 0.00 .00 .06 .93 .99 .01 .02	16	78 9.8 6.0 41 6.8 0.00 .00 .06 .71 .77 .01
Aquatic Macrophyte Coverage Littoral Zone Water-Surface Zone  LAKE TROPHIC CLASSIFICATION		80 1	pct pct
LAKE TROPHIC CLASSIFICATION			
Characteristic Value		93	
Trophic State Index (Carlson, 1977) TSI <sub>SD</sub> TSI <sub>TP</sub> TSI <sub>Ch1</sub>		37 47 35	

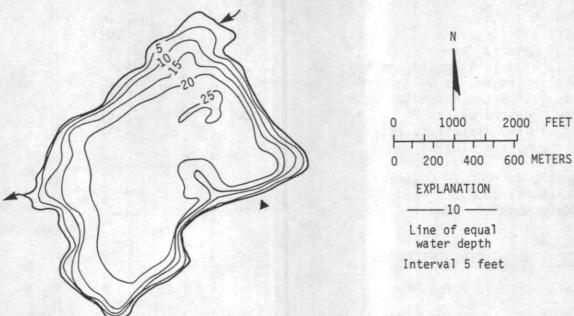




Mason Lake, Mason County. Photo taken June 12, 1981, view westerly. Bathymetric map from Washington Department of Game, May 4, 1954.

NAHWATZEL LAKE		MASON COUNT	ГҮ	WRIA 22	
T20N-R05W-08	LATITUDE	470 14' 08'	' LONGITUDE	1230 20	' 08"
PHYSICAL DATA		CULTURAL	_ DATA		
Drainage area 6. Altitude 4	20 mi <sup>2</sup> 40 ft	Resident	tial Developm	ent 70	pct
Lake Area 2	70 acres	Number o	of Nearshore I	Homes 116	5
Mean Depth	00 acre-ft 17 ft	Land Use	in Drainage	Basin	
Maximum Depth	25 ft		-		
Shoreline Length 2 Shoreline Configuration 1	.9 m1 .3		ential-Urban ential-Suburba		pct pct
Development of Volume 0.	69	Agricu	ıltural	C	pct
Bottom Slope 0.0 Surface Inflow You	65 pct es		or Unproduct Jurface	tive 91	
	es	D.,614. D			•
		Public B	oat Access to	Lake	Yes
WATER-QUALITY DATA (in mil	ligrams per	liter unles	s otherwise i	indicated)	1
Date		June	10, 1981		
Double (CL)			-		
Depth (ft) Water Temperature (OC)		3 16.2	19 16.2		
Dissolved Oxygen		9.6	9.5		
Specific Conductance (umho)	) ·	21	19		
pH (units)	•	6.6	6.5		
Total Nitrate, as N		0.02	0.02		
Total Nitrite, as N		.00	.00		
Total Ammonia, as N		. 06	.04		
Total Organic Nitrogen, as	N	.50	.32		
Total Nitrogen, as N	na D	. 58	.38		
Dissolved Orthophosphate, a Total Phosphorus, as P	15 F	.05 .04	.03		
Secchi-Disc Visibility (ft)	<b>)</b>	.04	13		
Chlorophyll <u>a</u> (ug/L)		1.52			
Aquatic Macrophyte Coverage	<u> </u>				
Littoral Zone			10 pct		
Water-Surface Zone			<1 pct		
LAKE TROPHIC CLASSIFICATION	<u>I</u>		·		
Characteristic Value			75		
Trophic State Index (Carlso	n, 1977)				
TŠI <sub>SD</sub>			40		
TSITP			57		
TSI <sub>Ch1</sub>			35		





Nahwatzel Lake, Mason County. Photo taken May 20, 1978. Bathymetric map from Washington Department of Game, June 7, 1949.

BLUE LAKE	OKANOGAN COUNTY	WRIA 49

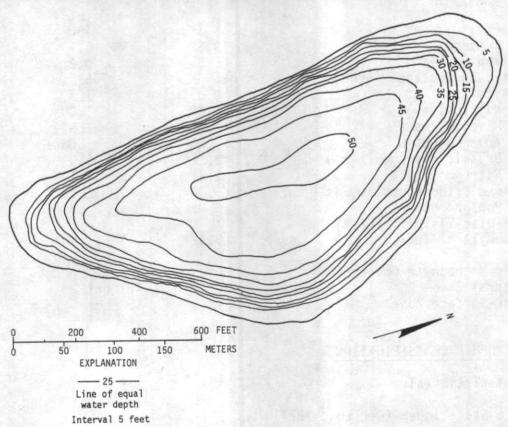
T35N-R26E-06 LATITUDE 480 33' 51" LONGITUDE 1190 36' 42"

PHYSICAL DATA			CULTURAL DATA		
Drainage area	0.28		Residential Development	0	pct
Altitude	2,562				
Lake Area		acres	Number of Nearshore Homes	0	
Lake Volume		acre-ft			
Mean Depth		ft	Land Use in Drainage Basin		
Maximum Depth	50	ft	_		
Shoreline Length	0.76	mi	Residential-Urban	0	pct
Shoreline Configuration	1.2		Residential-Suburban	0	pct
Development of Volume	0.63		Agricultural	37	pct
Bottom Slope	4.7	pct	Forest or Unproductive	54	pct
Surface Inflow	No	•	Lake Surface	9	pct
Surface Outflow	No				
			Public Boat Access to Lake		No

## $\underline{\text{WATER-QUALITY DATA}} \text{ (in milligrams per liter unless otherwise indicated)}$

Date	July	16, 1981
Depth (ft) Water Temperature (°C) Dissolved Oxygen Specific Conductance (umho) pH (units) Total Nitrate, as N Total Nitrite, as N Total Ammonia, as N Total Organic Nitrogen, as N Total Nitrogen, as N Dissolved Orthophosphate, as P Total Phosphorus, as P Secchi-Disc Visibility (ft) Chlorophyll a (ug/L)	3 18.8 9.0 2,045 8.6 0.00 .07 1.0 1.1 .00 .01	44 5.1 0.2 2,145 7.7 .00 .02 .43 1.4 1.8 .01 .01
Aquatic Macrophyte Coverage Littoral Zone Water-Surface Zone  LAKE TROPHIC CLASSIFICATION		<li><li>oct</li><li>oct</li></li>
Characteristic Value		85
Trophic State Index (Carlson, 1977) TSI <sub>SD</sub> TSI <sub>TP</sub> TSI <sub>Ch1</sub>		33 37 28

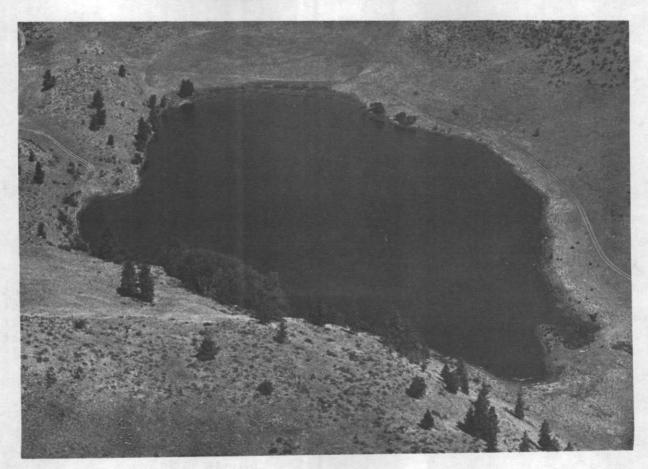


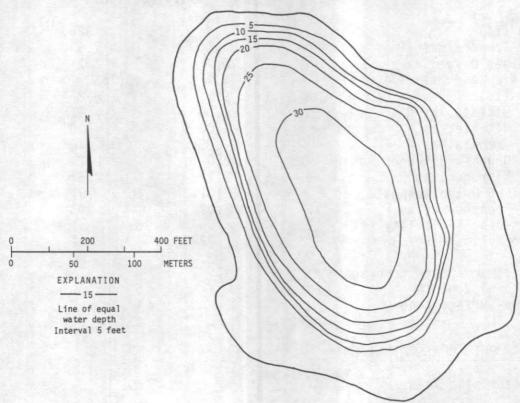


Blue (35N-26E-6) Lake, Okanogan County. Photo taken July 16, 1981, view northwesterly. Bathymetric map from U.S. Geological Survey, June 23, 1981.

BONNER LAKE	OK	ANOGAN COUNTY	1	WRIA	48	
T34N-R22E-32	LATITUDE	480 23' 47"	LONGITUDE	1200	05'	59"
PHYSICAL DATA		CULTURAL D	ATA			
Drainage area Altitude	0.80 mi <sup>2</sup>	Residentia	l Developme	nt	0	pct
Lake Area Lake Volume	2,266 ft 15 acres	Number of	Nearshore Ho	omes	0	
Mean Depth Maximum Depth	233 acre-ft 15 ft 32 ft	Land Use is	n Drainage [	Basin		
Shoreline Length	0.60 mi	Resident	ial-Urban		0	pct
Shoreline Configuration	1.1		ial-Suburbar	1	0	pct
Development of Volume Bottom Slope		Agricult		•	92	pc t
Surface Inflow	3.5 pct No	Lake Sur	r Unproducti	ıve	5 3	pct
Surface Outflow	No	Lake Sur	Iace		J	pct
	-	Public Boat	t Access to	Lake		No
WATER-QUALITY DATA (in	milligrams per	liter unless o	otherwise in	dicat	ed)	
Date		July 16	5, 1981			

Date	July	16,	1981
Depth (ft) Water Temperature (°C) Dissolved Oxygen Specific Conductance (umho) pH (units) Total Nitrate, as N Total Nitrite, as N Total Ammonia, as N Total Organic Nitrogen, as N Total Nitrogen, as N Dissolved Orthophosphate, as P Total Phosphorus, as P Secchi-Disc Visibility (ft) Chlorophyll a (ug/L)	3 19.8 10.8 695 9.0 0.00 .00 .08 2.2 2.3 .00 .03	8.	30 6.7 0.2 735 7.7 .00 .02 .06 2.0 2.1 .09 .08
Aquatic Macrophyte Coverage Littoral Zone Water-Surface Zone  LAKE TROPHIC CLASSIFICATION		40 5	pct pct
Characteristic Value		228	
Trophic State Index (Carlson, 1977) TSI <sub>SD</sub> TSI <sub>TP</sub> TSI <sub>Ch1</sub>		47 53 42	





Bonner Lake, Okanogan County. Photo taken July 16, 1981, view northerly. Bathymetric map from Washington Department of Game, January 6, 1948.

CASI	ľΛD	LAKI	F
UNDI	UK	LAN	_

### OKANOGAN COUNTY

WRIA 49

T35N-R26E-16

LATITUDE

48° 32' 17" LONGITUDE 119° 33' 40"

PHYSICAL DATA		CULTURAL DATA		
Dwainago anos	ss	Danidankial Da		

Drainage area	.66	mi <sup>2</sup>	Residential Development	0	pct
Altitude	1,950	ft	•		
Lake Area	15	acres	Number of Nearshore Homes	0	
Lake Volume	268	acre-ft			
Mean Depth	18	ft	Land Use in Drainage Basin		
Maximum Depth	39	ft			
Shoreline Length	0.65	mi	Residential-Urban	0	pct
Shoreline Configuration	1.2		Residential-Suburban	0	pct
Development of Volume	0.47		Agricultural	87	pct
Bottom Slope	4.32	pct	Forest or Unproductive	7	pct
Surface Inflow	No	-	Lake Surface	6	pct
Surface Outflow	No				•
			Public Boat Access to Lake		No

## WATER-QUALITY DATA (in milligrams per liter unless otherwise indicated)

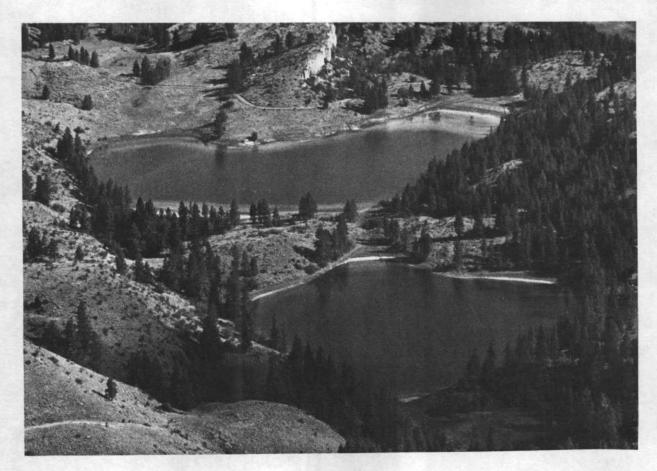
Date	July	16, 1981
Depth (ft) Water Temperature (°C) Dissolved Oxygen Specific Conductance (umho) pH (units) Total Nitrate, as N Total Nitrite, as N Total Ammonia, as N Total Organic Nitrogen, as N Total Nitrogen, as N Dissolved Orthophosphate, as P Total Phosphorus, as P Secchi-Disc Visibility (ft) Chlorophyll a (ug/L)	3 20.0 10.7 3,335 9.1 0.00 .00 .09 2.0 2.1 .01 .02	32 7.9 0.2 3,185 8.8 .01 .00 .40 2.2 2.6 .01 .03

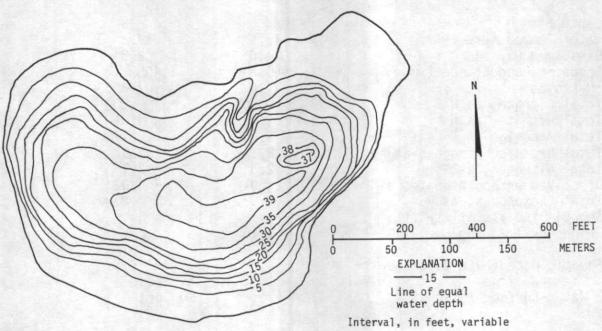
Aquatic Macrophyte Coverage Littoral Zone <5 pct Water-Surface Zone <1 pct

### LAKE TROPHIC CLASSIFICATION

Characteristic Value 169 Trophic State Index (Carlson, 1977)

TSI<sub>SD</sub> TSI<sub>TP</sub> 37 47 TSIChl 27





Castor Lake, Okanogan County. Photo taken July 16, 1981, view northerly. Castor Lake at top of photo. Bathymetric map from U.S. Geological Survey, June 23, 1981.

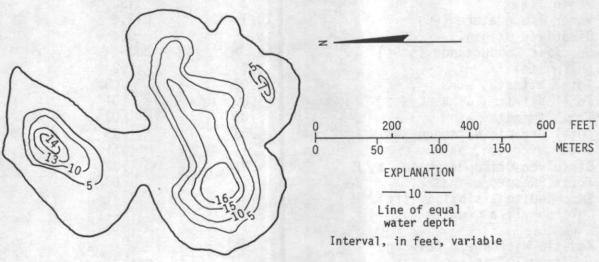
MID LAKE	OVENOCEN COUNTY	LIDTO AO
MUD LAKE	OKANOGAN COUNTY	WRTA 49

T36N-R25E-25 LATITUDE 480 35' 44" LONGITUDE 1190 37' 41"

PHYSICAL DATA			CULTURAL DATA		
Drainage area	4.5		Residential Development	10	pct
Altitude Lake Area		acres	Number of Nearshore Homes	1	
Lake Volume Mean Depth		acre-ft ft	Land Use in Drainage Basin		
Maximum Depth Shoreline Length	16 0.56	ft	Residential-Urban	٥	
Shoreline Configuratio	n 1.5		Residential-Suburban	0	pct pct
Development of Volume Bottom Slope	0.38	pct	Agricultural Forest or Unproductive	72 27	pct pct
Surface Inflow	No	poo	Lake Surface	i	pct
Surface Outflow	No		Public Boat Access to Lake		No

Date	July	15, 1981
Depth (ft) Water Temperature (°C) Dissolved Oxygen Specific Conductance (umho) pH (units) Total Nitrate, as N Total Nitrite, as N Total Ammonia, as N Total Organic Nitrogen, as N Total Nitrogen, as N Dissolved Orthophosphate, as P Total Phosphorus, as P Secchi-Disc Visibility (ft) Chlorophyll a (ug/L)	3 19.4 4.6 1,490 7.6 0.00 .01 .20 2.1 2.3 .01 .03	8 17.3 2.6 1,495 7.5 .00 .01 .17 1.9 2.1 .02 .03 >10
Aquatic Macrophyte Coverage Littoral Zone Water-Surface Zone  LAKE TROPHIC CLASSIFICATION		60 pct 0 pct
Characteristic Value		201
Trophic State Index (Carlson, 1977) TSI <sub>SD</sub> TSI <sub>TP</sub> TSI <sub>Ch1</sub>		44 53 32



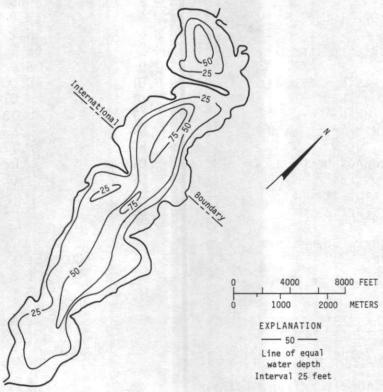


Mud (36N-25E-25) Lake, Okanogan County. Photo taken July 15, 1981, view easterly. Mud Lake at lower right of photo. Bathymetric map from U.S. Geological Survey, June 23, 1981.

OSOYOOS LAKE	OK	ANOGAN COUNTY	WRIA	49	
T40N-R27E-22	LATITUDE	480 57' 00" L	ONGITUDE 1190	25'	42"
PHYSICAL DATA		CULTURAL DATA	<u>1</u>		
Drainage area	mi <sup>2</sup>	Residential 1	)evelopment		pct
Altitude Lake Area Lake Volume	911 ft 3,320 acres 111,000 acre-ft	Number of Ne	arshore Homes		
Mean Depth Maximum Depth	34 ft 86 ft	Land Use in I	Orainage Basin		
Shoreline Length	17 mi	Residentia	l-Urban		pct
Shoreline Configurat			-Suburban		pct
Development of Volum		Agricultur			pct
Bottom Slope	0.63 pct		Jnproductive -		pct
Surface Inflow	Yes	Lake Surfa	ce		pct
Surface Outflow	Yes	Public Boat	Access to Lake		Yes
WATER-QUALITY DATA (	in milligrams per	liter unless oth	nerwise indicat	ted)	
Date		July 15.	1 981		

Date	July	15, 1981
Depth (ft) Water Temperature (°C) Dissolved Oxygen Specific Conductance (umho) pH (units) Total Nitrate, as N Total Nitrite, as N Total Ammonia, as N Total Organic Nitrogen, as N Total Nitrogen, as N Dissolved Orthophosphate, as P Total Phosphorus, as P Secchi-Disc Visibility (ft) Chlorophyll a (ug/L)	3 20.1 8.8 262 8.1 0.00 .00 .05 .66 .71 .01	50 13.6 0.4 300 7.2 .08 .01 .07 .35 .51 .02 .00
Aquatic Macrophyte Coverage Littoral Zone Water-Surface Zone		40 pct 0 pct
LAKE TROPHIC CLASSIFICATION		
Characteristic Value		105
Trophic State Index (Carlson, 1977) TSI <sub>SD</sub> TSI <sub>TP</sub> TSI <sub>Ch1</sub>		45 47 42



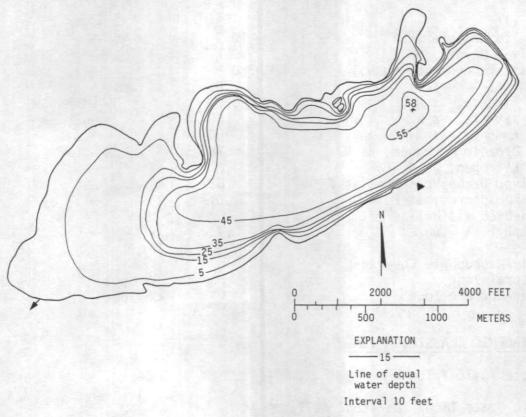


Osoyoos Lake, Okanogan County. Photo taken August 1974, view northwesterly. Bathymetric map from Washington Department of Game, August 10, 1966.

DIAMOND LAKE	PEND (	OREILLE COUNTY WRI	IA 55	
T30N-R44E-03	LATITUDE	48º 07' 08" LONGITUDE 11	170 13'	05"
PHYSICAL DATA		CULTURAL DATA		
Drainage area Altitude	17.4 mi <sup>2</sup> 2,340 ft	Residential Development	80	pct
Lake Area	800 acres	Number of Nearshore Home	s 352	
Lake Volume Mean Depth Maximum Depth	22,000 acre-ft 27 ft 58 ft	Land Use in Drainage Bas	in	
	7.0 mi	Residential-Urban	0	pct
Shoreline Configurati		Residential-Suburban	2	pct
Development of Volume		Agricultural	13	•
Bottom Slope	0.87 pct			•
Surface Inflow Surface Outflow	No	Lake Surface	7	pct
Surface Outilow	Yes	Public Boat Access to La	ıke	Yes
WATER-QUALITY DATA (in	n milligrams per	r liter unless otherwise indi	cated)	

Date	July	13,	1981
Depth (ft) Water Temperature (°C) Dissolved Oxygen Specific Conductance (umho) pH (units) Total Nitrate, as N Total Nitrite, as N Total Ammonia, as N Total Organic Nitrogen, as N Total Nitrogen, as N Dissolved Orthophosphate, as P Total Phosphorus, as P Secchi-Disc Visibility (ft) Chlorophyll a (ug/L)	3 18.9 8.6 64 7.9 0.01 .01 .11 .67 .80 .01	22	35 14.0 5.2 65 6.9 0.00 .01 .13 .63 .77 .03
Aquatic Macrophyte Coverage Littoral Zone Water-Surface Zone		30 10	pct pct
LAKE TROPHIC CLASSIFICATION			•
Characteristic Value		59	
Trophic State Index (Carlson, 1977) TSISD TSITP TSICh1		33 37 26	





Diamond Lake, Pend Oreille County. Photo taken August 2, 1977. Bathymetric map from Washington Department of Game, January 27, 1955.

LUCERNE	(YORKE)	LAKE

### PEND OREILLE COUNTY WRIA 62

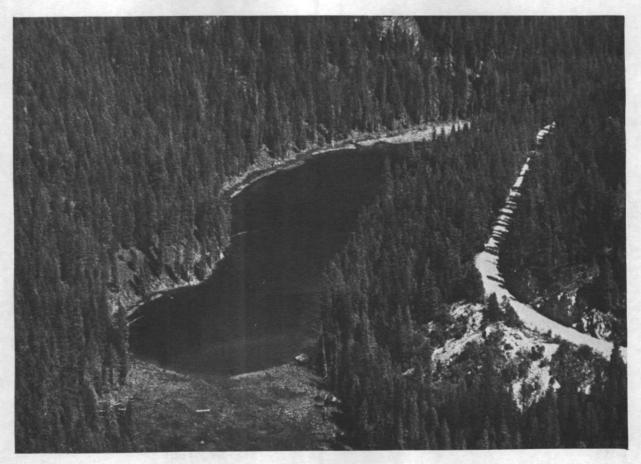
T40N-R43E-12

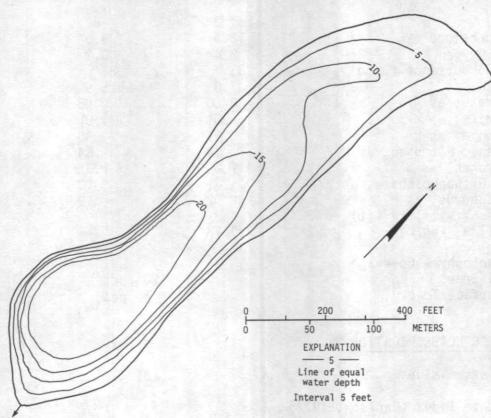
LATITUDE 480 58' 34" LONGITUDE 1170 18' 50"

Public Boat Access to Lake No

PHYSICAL DATA		ь	CULTURAL DATA		
Drainage area	0.40		Residential Development	0	pct
Altitude	2,448	ft			
Lake Area	9	acres	Number of Nearshore Homes	0	
Lake Volume	104	acre-ft			
Mean Depth	12	ft	Land Use in Drainage Basin		
Maximum Depth	20	ft	<b>Č</b>		
Shoreline Length	0.66	mi	Residential-Urban	0	pct
Shoreline Configuration	n 1,6		Residential-Suburban	0	pct
Development of Volume	0.58		Agricultural	0	pct
Bottom Slope		pct	Forest or Unproductive	97	pct
Surface Inflow	No	•	Lake Surface	3	pct
Surface Outflow	Yes				poo

Date	Ju1	y 15,	1981
Depth (ft) Water Temperature (°C) Dissolved Oxygen Specific Conductance (umho) pH (units) Total Nitrate, as N Total Nitrite, as N Total Ammonia, as N Total Organic Nitrogen, as N Total Nitrogen, as N Dissolved Orthophosphate, as P Total Phosphorus, as P Secchi-Disc Visibility (ft) Chlorophyll a (ug/L)	3 16.7 9.7 380 7.5 0.01 .00 .08 .78 .87 .00 .01	>26	
Aquatic Macrophyte Coverage Littoral Zone Water-Surface Zone		85 <b>&lt;</b> 5	pct pct
LAKE TROPHIC CLASSIFICATION			
Characteristic Value		64	
Trophic State Index (Carlson, 1977) TSI <sub>SD</sub> TSI <sub>TP</sub> TSI <sub>Ch1</sub>		30 37 27	





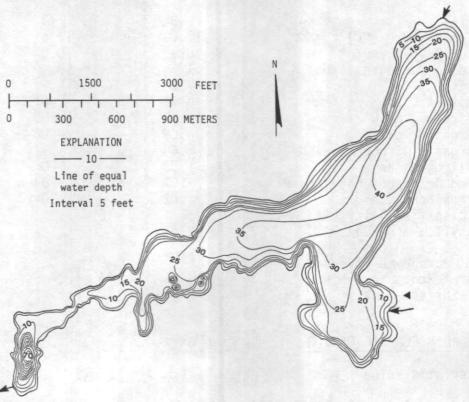
Lucerne (Yorke) Lake, Pend Oreille County. Photo taken July 15, 1981, view northwesterly. Bathymetric map from Washington Department of Game, January 3, 1957.

SACHEEN LAKE	PEND C	REILLE COUNTY	WRI	IA 55
T31N-R43E-35	LATITUDE	480 08' 47"	LONGITUDE 11	70 20' 05"
PHYSICAL DATA		CULTURAL D	ATA	
	2.8 mi <sup>2</sup> !34 ft	Residentia	1 Development	85 pct
Lake Area 3	320 acres	Number of	Nearshore Home	es 232
Mean Depth	300 acre-ft 24 ft	Land Use i	n Drainage Bas	sin
Shoreline Length 6 Shoreline Configuration 2 Development of Volume 0. Bottom Slope 0. Surface Inflow	40 ft .3 mi .5 60 95 pct es es	Resident Agricult Forest o Lake Sur	r Unproductive face	4 pct
		Public Boa	t Access to La	ike Yes
WATER-QUALITY DATA (in mil	ligrams per	liter unless	otherwise indi	cated)
Date		July 1	4, 1981	
Depth (ft) Water Temperature (°C) Dissolved Oxygen Specific Conductance (umho pH (units) Total Nitrate, as N Total Nitrite, as N Total Ammonia, as N Total Organic Nitrogen, as Total Nitrogen, as N Dissolved Orthophosphate, Total Phosphorus, as P Secchi-Disc Visibility (ft Chlorophyll a (ug/L) Aquatic Macrophyte Coverage	N as P )	3 18.5 8.4 83 7.8 0.00 .01 .11 .89 1.0 .01 .02	42 8.9 0.2 88 6.9 .08 .01 .36 .84 1.3 .10	
Littoral Zone Water-Surface Zone	•	;	20 pct 5 pct	
LAKE TROPHIC CLASSIFICATIO	<u>N</u>		- 400	

Characteristic Value

Trophic State Index (Carlson, 1977)
TSI<sub>SD</sub>
TSI<sub>TP</sub>
TSI<sub>Ch1</sub>





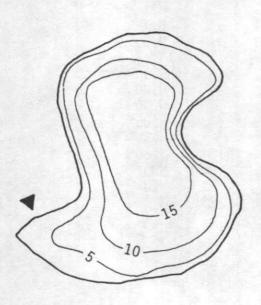
Sacheen Lake, Pend Oreille County. Photo taken August 1, 1977. Bathymetric map from Washington Department of Game, March 4, 1957.

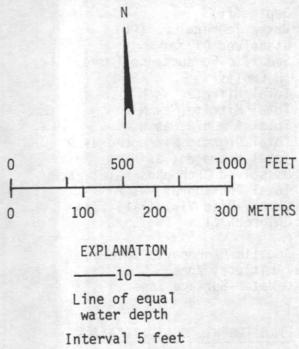
BONNEY LAKE		PIERCE COUNTY		WRIA	10	
T20N-R05E-28	LATITUDE	470 11' 23"	LONGITUDE	1220	10'	57"
PHYSICAL DATA		CULTURAL DA	<u>NTA</u>			
Drainage area Altitude	0.22 mi <sup>2</sup> 605 ft	Residentia	l Developme	ent	90	pct
Lake Area	17 acres 160 acre-ft	Number of N	Nearshore H	lomes	22	
Mean Depth Maximum Depth	10 ft 19 ft	Land Use in	•	Basin		
Shoreline Length Shoreline Configuration	0.74 mi 1.3		ial-Urban ial-Suburba	ın	0 8	pct pct
Development of Volume	0.52 2.0 pct	Agricult			4 76	pct
Surface Inflow	No	Lake Surf		. 1 4 C	12	pct pct
Surface Outflow	Yes	Public Boat	t Access to	Lake		Yes
WATER-QUALITY DATA (in Date	milligrams per	liter unless o		ndicat	ted)	
Depth (ft)		3	17			
Water Temperature (°C)		17.0	12.6			
Dissolved Oxygen Specific Conductance (u	mho)	8.9 64	0.2 69			
pĤ (units) Total Nitrate, as N		7.0 0.01	6.7 .01			
Total Nitrite, as N	,	.00	.00			
Total Ammonia, as N Total Organic Nitrogen,	as N	.09 .68	.08 .92			
Total Nitrogen, as N Dissolved Orthophosphate	e. as P	.78 .02	1.0 .03			
Total Phosphorus, as P		.02	. 04			
Secchi-Disc Visibility Chlorophyll <u>a</u> (ug/L)	( T C )	2.03	6			
Aquatic Macrophyte Cover	rage	-	15t			
Littoral Zone Water-Surface Zone			75 pct 80 pct			
LAKE TROPHIC CLASSIFICA	TION					

Characteristic Value

Trophic State Index (Carlson, 1977)
TSI<sub>SD</sub>
TSI<sub>TP</sub>
TSI<sub>Ch1</sub>



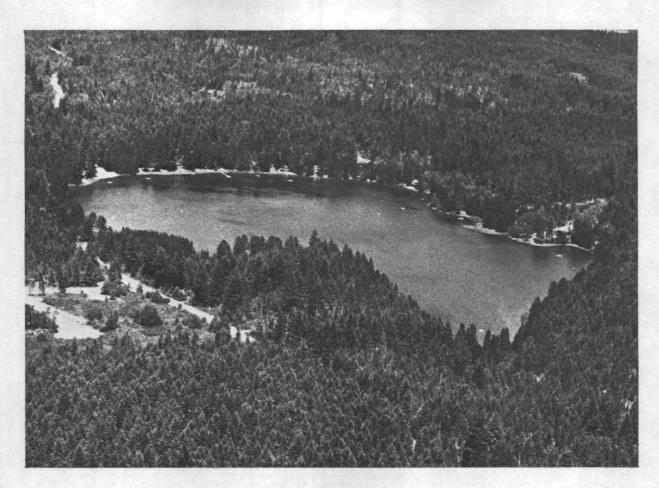


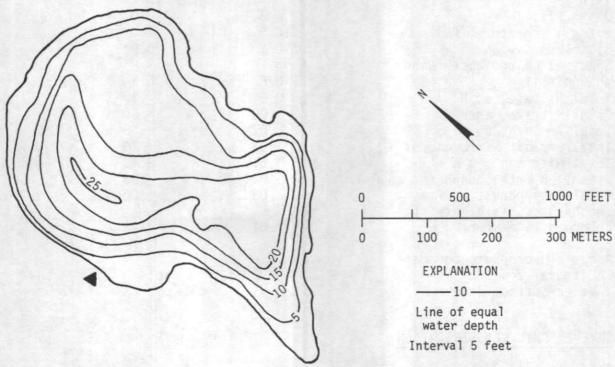


Bonney Lake, Pierce County. Photo taken June 23, 1981, view northeasterly. Bathymetric map from U.S. Geological Survey, June 18, 1973.

CARNEY LAKE		PIERCE COUNTY	WRIA	15	
T22N-R01W-14	LATITUDE	47º 24' 02" LONGITU	DE 1220	45'	39"
PHYSICAL DATA		CULTURAL DATA			
Drainage area Altitude	0.46 mi <sup>2</sup>	Residential Develo	omen t	95	pct
Lake Area	350 ft 41 acres	Number of Nearshor	e Homes	29	
Lake Volume Mean Depth Maximum Depth	500 acre-ft 12 ft 25 ft	Land Use in Draina	je Basin		
Shoreline Length	1.1 mi	Residential-Urba	1	0	pct
Shoreline Configuration		Residential-Subur	'ban	5	pct
Development of Volume Bottom Slope	0.49	Agricultural		0	pct
Surface Inflow	1.7 pct No	Forest or Unprodu Lake Surface	ictive	81 14	
Surface Outflow	No	Lake Sui lace		14	pct
		Public Boat Access	to Lake		Yes
WATER-QUALITY DATA (in milligrams per liter unless otherwise indicated)					
Date		June 24, 1981			

Date	Jun	ne 24,	1981
Depth (ft) Water Temperature (OC) Dissolved Oxygen Specific Conductance (umho) pH (units) Total Nitrate, as N Total Nitrite, as N Total Ammonia, as N Total Organic Nitrogen, as N Total Nitrogen, as N Dissolved Orthophosphate, as P Total Phosphorus, as P Secchi-Disc Visibility (ft) Chlorophyll a (ug/L) Aquatic Macrophyte Coverage	3 18.5 9.5 17 6.2 0.00 .00 .06 .89 .95 .01	> 23	21 18.1 9.5 16 5.9 0.00 .05 .55 .60
Littoral Zone Water-Surface Zone		60 0	pct pct
LAKE TROPHIC CLASSIFICATION			
Characteristic Value		77	
Trophic State Index (Carlson, 1977) TSI <sub>SD</sub> TSI <sub>TP</sub> TSI <sub>Chl</sub>		32 37 35	





Carney Lake, Pierce County. Photo taken June 24, 1981, view northeasterly. Bathymetric map from U.S. Geological Survey, June 22, 1973.

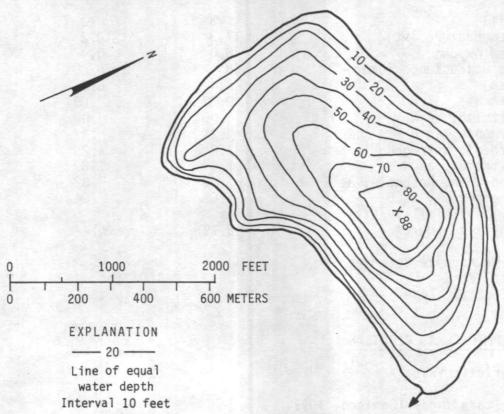
CLEAR LAKE	PIERCE COU	NTY WRIA 11
T17N-R04E-27	LATITUDE 460 55' 3	3" LONGITUDE 122º 16' 34"

PHYSICAL DATA			CULTURAL DATA		
Drainage area	0.41		Residential Development	85	pct
Altitude Lake Area	778 160	tt acres	Number of Nearshore Homes	105	
Lake Volume Mean Depth		acre-ft ft	Land Use in Drainage Basin		
Maximum Depth	85	ft	•	^	
Shoreline Length Shoreline Configuration	2.1 n 1.2		Residential-Urban Residential-Suburban	0 17	pct pct
Development of Volume	0.45		Agricul tural	Ő	pct
Bottom Slope	2.8	pct	Forest or Unproductive	34	pct
Surface Inflow	No		Lake Surface	49	pct
Surface Outflow	Мо				
			Public Boat Access to Lake	•	Yes

## $\underline{\textbf{WATER-QUALITY DATA}} \text{ (in milligrams per liter unless otherwise indicated)}$

Date	June	23, 1981
Depth (ft) Water Temperature (°C) Dissolved Oxygen Specific Conductance (umho) pH (units) Total Nitrate, as N Total Nitrite, as N Total Ammonia, as N Total Organic Nitrogen, as N Total Nitrogen, as N Dissolved Orthophosphate, as P Total Phosphorus, as P Secchi-Disc Visibility (ft) Chlorophyll a (ug/L)	3 16.5 10.1 55 6.6 0.01 .00 .07 .53 .61 .02 .02	70 7.0 0.9 59 6.5 .17 .00 .08 .70 .95 .03 .08
Aquatic Macrophyte Coverage Littoral Zone Water-Surface Zone		2 pct <1 pct
LAKE TROPHIC CLASSIFICATION		
Characteristic Value		50
Trophic State Index (Carlson, 1977) TSI <sub>SD</sub> TSI <sub>TP</sub> TSI <sub>Ch1</sub>		31 47 31

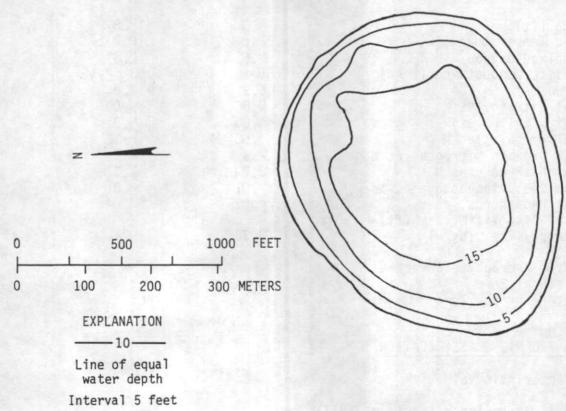




Clear Lake, Pierce County. Photo taken June 23, 1981, view northwesterly. Bathymetric map from Washington Department of Game, February 7, 1949.

CRANBERRY LAKE		PIERCE COUNTY	W	NRIA 1	11	
T16N-R03E-01	LATITUDE	460 53' 51"	LONGITUDE	1220 2	21 '	46"
PHYSICAL DATA		CULTURAL D	ATA			
Drainage area Altitude	0.55 mi <sup>2</sup> 644 ft	Residentia	l Developmen	it	6	pct
Lake Area	37 acres 430 acre-ft	Number of	Nearshore Ho	mes	2	
Mean Depth Maximum Depth	12 ft 18 ft	Land Use i	n Drainage B	Basin		
Shoreline Length Shoreline Configuration Development of Volume	0.86 mi	Resident Agricult	r Unproducti	ve	0 0 50 40 10	pct pct pct pct pct
Surface Outflow	Yes	Public Boa	t Access to	Lake		No
Date  Depth (ft) Water Temperature (°C) Dissolved Oxygen Specific Conductance (urph (units) Total Nitrate, as N Total Ammonia, as N Total Organic Nitrogen, Total Nitrogen, as N	nho) as N	June 3 17.3 8.0 68 6.4 0.02 .00 .21 1.2 1.4	4, 1981 13 10.2 0.4 75 6.3 .09 .00 .27 1.2 1.6	dicate	ed)	
Dissolved Orthophosphate Total Phosphorus, as P Secchi-Disc Visibility ( Chlorophyll a (ug/L)		.02 .02 5.19	.02 .04			
Aquatic Macrophyte Cover Littoral Zone Water-Surface Zone	age	1	00 pct 20 pct			
LAKE TROPHIC CLASSIFICAT	ION					
Characteristic Value		;	223			
Trophic State Index (Car TSI <sub>SD</sub> TSI <sub>TP</sub> TSI <sub>Ch1</sub>	lson, 1977)		57 47 47			

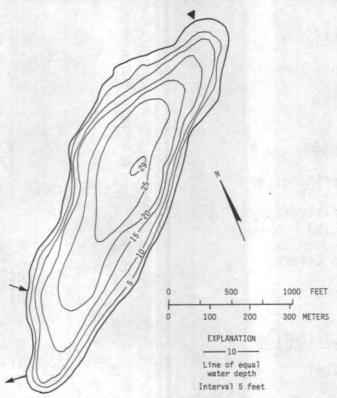




Cranberry Lake, Pierce County. Photo taken June 4, 1981, view easterly. Bathymetric map from U.S. Geological Survey, June 14, 1973.

CRESCENT LAKE		PIERCE COUNTY		WRIA	15	
T22N-R02E-20	LATITUDE	470 23' 18"	LONGITUDE	1220	34 '	19"
PHYSICAL DATA		CULTURAL D	)ATA			
Drainage area	1.18 mi <sup>2</sup>	Residentia	ıl Developme	nt	50	pct
Altitude Lake Area	166 ft 50 acres		Nearshore H	lomes	31	·
Mean Depth	780 acre-ft 16 ft 29 ft		in Drainage	Basin		
Maximum Depth Shoreline Length	1.4 mi		tial-Urban		0	pct
Shoreline Configuration Development of Volume	0.54	Agriculi	ial-Suburba tural		1	pct pct
Surface Inflow	Yes	Forest o Lake Sur		ive	89 7	pct pct
Surface Outflow	Yes	Public Boa	it Access to	Lake		Yes
WATER-QUALITY DATA (in )	milliarams ne	r liter umless	otherwise i	ndicai	ted)	
Date	mility dans per		2, 1981		<b></b> ,	
			-			
Depth (ft) Water Temperature (°C)		3 17.8	28 10.8			
Dissolved Oxygen Specific Conductance (u	nho)	8.6 55	0.8 63			
pH (units) Total Nitrate, as N		6.9 0.00	7.0 .00			
Total Nitrite, as N		.00	. 01			
Total Ammonia, as N Total Organic Nitrogen,	as N	.05 2.9	.12 1.2			
Total Nitrogen, as N Dissolved Orthophosphate	e, as P	2.9 .01	1.3 .01			
Total Phosphorus, as P Secchi-Disc Visibility		.02	.04			
Chlorophyll <u>a</u> (ug/L)	(10)	2.38				
Aquatic Macrophyte Cover	rage		00			
Littoral Zone Water-Surface Zone			90 pct 5 pct			
LAKE TROPHIC CLASSIFICA	TTON					,
	ITOM		063			
Characteristic Value			261			
Trophic State Index (Car TSI <sub>SD</sub>	rlson, 1977)		44			
TSITP TSICh1			47 39			
· • · · · · · · · · · · · · · · · · · ·						





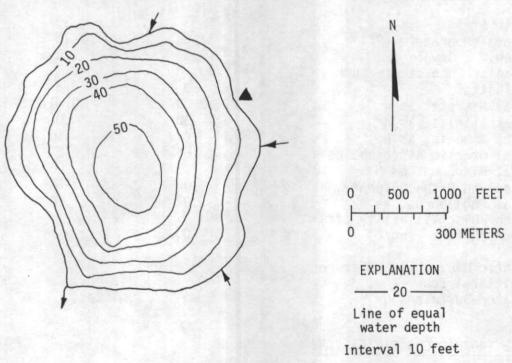
Crescent (22N-2E-20) Lake, Pierce County. Photo taken June 12, 1981, view northeasterly. Bathymetric map from Washington Department of Game, August 19, 1947.

T16N-R03E-07 LATITUDE 460 53' 32" LONGITUDE 1220 28' 18"

PHYSICAL DATA			CULTURAL DATA		
Drainage area	3.57		Residential Development	25	pct
Altitude	347	ft			
Lake Area	120	acres	Number of Nearshore Homes	14	
Lake Volume	3,100	acre-ft			
Mean Depth	26	ft	Land Use in Drainage Basin		
Maximum Depth	50	ft	•		
Shoreline Length	1.6	mi	Residential-Urban	0	pct
Shoreline Configuration	1.0		Residential-Suburban	< 1	pct
Development of Volume	0.52		Agricul tural	20	pct
Bottom Slope	5.5	pct	Forest or Unproductive	74	pct
Surface Inflow	Yes		Lake Surface	6	pct
Surface Outflow	Yes				•
			Public Boat Access to Lake	•	Yes

Date	June	9, 1981
Depth (ft) Water Temperature (°C) Dissolved Oxygen Specific Conductance (umho) pH (units) Total Nitrate, as N Total Nitrite, as N Total Ammonia, as N Total Organic Nitrogen, as N Total Nitrogen, as N Dissolved Orthophosphate, as P Total Phosphorus, as P Secchi-Disc Visibility (ft) Chlorophyll a (ug/L)	3 16.5 12.2 148 8.0 0.40 .04 .21 3.8 4.4 .13 .44	39 6.9 0.2 200 7.0 .00 .00 3.9 3.6 7.5 .12 1.9
Aquatic Macrophyte Coverage Littoral Zone Water-Surface Zone  LAKE TROPHIC CLASSIFICATION		90 pct 5 pct
		524
Characteristic Value		534
Trophic State Index (Carlson, 1977) TSI <sub>SD</sub> TSI <sub>TP</sub> TSI <sub>Ch1</sub>		54 92 53





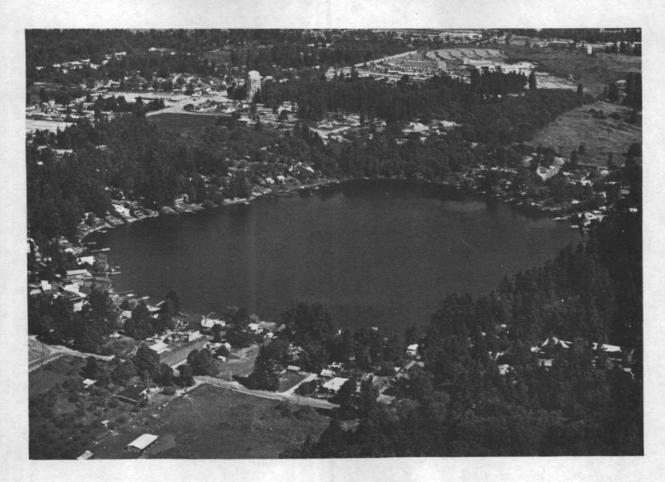
Harts Lake, Pierce County. Photo taken June 9, 1981, view northerly. Bathymetric map from Washington Department of Game, June 1, 1953.

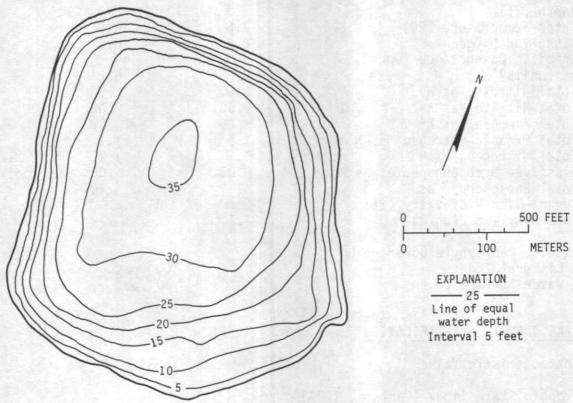
LOUISE LAKE	PIERCE COUNTY	WRIA	12

T19N-R02E-04 LATITUDE 470 09' 36" LONGITUDE 1220 34' 00"

PHYSICAL DATA			CULTURAL DATA			
Drainage area	0.34		Residential Development	100	pct	
Altitude	230			00		
Lake Area		acres	Number of Nearshore Homes	80		
Lake Volume		acre-ft	I III I Buston Barda			
Mean Depth		ft	Land Use in Drainage Basin			
Maximum Depth		ft		_		
Shoreline Length	0.91	mi	Residential-Urban	8	pct	
Shoreline Configuration	1.0		Residential-Suburban	41	pct	
Development of Volume	0.63		Agricultural	21	pct	
Bottom Slope	2.4	pct	Forest or Unproductive	12	pct	
Surface Inflow	No	•	Lake Surface	18	pct	
Surface Outflow	Νo					
			Public Boat Access to Lake	,	Yes	

Date	June 24, 1981			
Depth (ft) Water Temperature (°C) Dissolved Oxygen Specific Conductance (umho) pH (units) Total Nitrate, as N Total Nitrite, as N Total Ammonia, as N Total Organic Nitrogen, as N Total Nitrogen, as N Dissolved Orthophosphate, as P Total Phosphorus, as P Secchi-Disc Visibility (ft) Chlorophyll a (ug/L)	3 17.6 10.6 80 6.9 0.00 .00 .07 .65 .72 .00	30 12.6 4.8 72 6.6 0.01 .00 .07 .69 .77 .01		
Aquatic Macrophyte Coverage Littoral Zone Water-Surface Zone  LAKE TROPHIC CLASSIFICATION		3 pct <1 pct		
Characteristic Value		78		
Trophic State Index (Carlson, 1977) TSISD TSITP TSICH1		41 47 0		



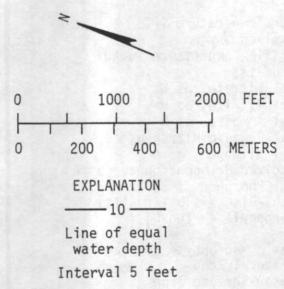


Louise Lake, Pierce County. Photo taken June 24, 1981, view northwesterly. Bathymetric map from Washington Department of Game, June 5, 1950.

MORGAN LAKE		PIERCE COUNTY	WRIA	10	
T18N-R05E-30	LATITUDE	470 00' 48"	LONGITUDE 1220	13'	41"
PHYSICAL DATA		CULTURAL I	DATA		
Lake Volume Mean Depth Maximum Depth Shoreline Length Shoreline Configuration Development of Volume Bottom Slope	1.20 mi <sup>2</sup> 688 ft 27 acres 310 acre-ft 12 ft 23 ft 0.79 mi 1.1 0.51 1.9 pct Yes Yes		al Development Nearshore Homes	5 2	pct
		Resident Resident Agricult		0 0 26	pct
		Lake Sur	or Unproductive rface at Access to Lake	70 4	pct pct No
WATER-QUALITY DATA (in )	nilliarams per	r liter unless	otherwise indica	ted)	
Date	<b>3</b>		3, 1981		
Depth (ft) Water Temperature (°C) Dissolved Oxygen Specific Conductance (uppH (units) Total Nitrate, as N Total Nitrite, as N Total Ammonia, as N Total Organic Nitrogen, Total Nitrogen, as N Dissolved Orthophosphate Total Phosphorus, as P Secchi-Disc Visibility (Chlorophyll a (ug/L)  Aquatic Macrophyte Cover Littoral Zone Water-Surface Zone	nho) as N e, as P (ft)	3 17.8 8.5 60 6.5 0.00 .00 .09 1.6 1.7 .00 .11	16 8.9 0.2 69 6.2 .00 .10 1.1 1.2 .00 .10 4 		
LAKE TROPHIC CLASSIFICAT	T T ON		·		
Characteristic Value	I T Old		333		
Trophic State Index (Car TSI <sub>SD</sub> TSI <sub>TP</sub> TSI <sub>Ch1</sub>	lson, 1977)		57 72 60		







Morgan Lake, Pierce County. Photo taken June 3, 1981, view northeasterly. Bathymetric map from U.S. Geological Survey, February 7, 1974.

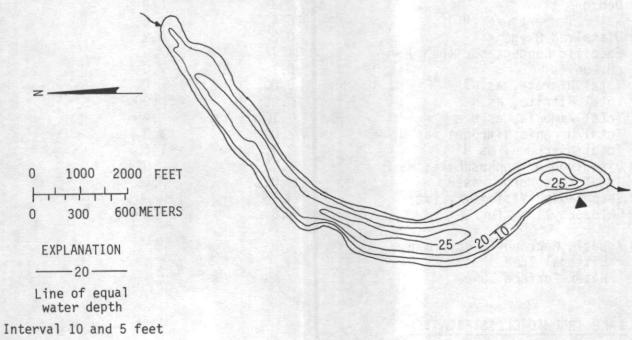
OHOP LAKE	PIERCE COUNTY	WRIA	11
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T16N-R04E-10 LATITUDE 460 53' 06" LONGITUDE 1220 16' 38"

PHYSICAL DATA		CULTURAL DATA		
Drainage area	17.3 mi <sup>2</sup>	Residential Development	60	pct
Altitude	524 ft	•		·
Lake Area	230 acres	Number of Nearshore Homes	144	
Lake Volume	3,800 acre-ft			
Mean Depth	17 ft	Land Use in Drainage Basin		
Maximum Depth	25 ft	•		
Shoreline Length	4.6 mi	Residential-Urban	0	pc t
Shoreline Configurati	ion 2.1	Residential-Suburban	1	pct
Development of Volume	0.66	Agricul tural	5	pct
Bottom Slope	4.5 pct	Forest or Unproductive	92	pct
Surface Inflow	Yes	Lake Surface	2	pct
Surface Outflow	Yes			•
		Public Boat Access to Lake		Yes

Date .	June	3,	1981
Depth (ft) Water Temperature (°C) Dissolved Oxygen Specific Conductance (umho) pH (units) Total Nitrate, as N Total Nitrite, as N Total Ammonia, as N Total Organic Nitrogen, as N Total Nitrogen, as N Dissolved Orthophosphate, as P Total Phosphorus, as P Secchi-Disc Visibility (ft) Chlorophyll a (ug/L)	3 17.5 10.0 65 6.6 0.13 .01 .09 1.3 1.5 .01	5	18 10.6 1.4 67 6.4 0.22 .01 .14 1.3 1.6 .01
Aquatic Macrophyte Coverage Littoral Zone Water-Surface Zone  LAKE TROPHIC CLASSIFICATION		5 <1	pct pct
Characteristic Value		256	
		200	
Trophic State Index (Carlson, 1977)  TSI <sub>SD</sub> TSI <sub>TP</sub> TSI <sub>Ch1</sub>		54 63 58	

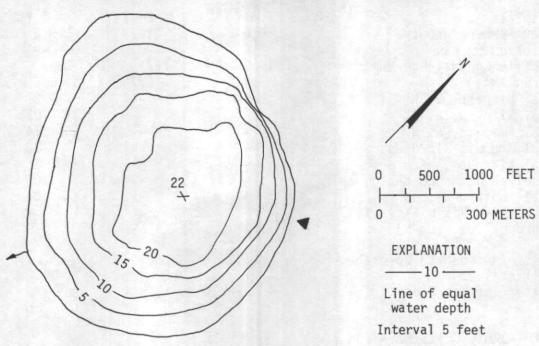




Ohop Lake, Pierce County. Photo taken June 21, 1971. Bathymetric map from Washington Department of Game, June 14, 1954.

SILVER LAKE		PIERCE COUNTY	WR	tIA 11	
T16N-R03E-12	LATITUDE	460 52' 53"	LONGITUDE 1	220 21'	55"
PHYSICAL DATA		CULTURAL 1	<u>DATA</u>		
	83 mi <sup>2</sup>	Residenti	al Development	: 30	pct
Lake Area 1	04 ft 50 acres 00 acre-ft		Nearshore Hom	nes 26	
Mean Depth	00 acre-10 12 ft 25 ft		in Drainage Ba	ısin	
Shoreline Length 1 Shoreline Configuration 1 Development of Volume 0.	.7 mi .0 54	Residen <sup>.</sup> Agricul	tial-Urban tial-Suburban tural	0 1 43	pct pct pct
Surface Inflow	.1 pct No es	Forest ( Lake Su	or Unproductiv rface	e 43 13	pct pct
Surface outilion 1	c s	Public Boa	at Access to L	ake	Yes
WATER-QUALITY DATA (in mil	ligrams pe	r liter unless	otherwise ind	licated)	
Date		June 2	23, 1981		
Depth (ft) Water Temperature (°C) Dissolved Oxygen Specific Conductance (umho pH (units) Total Nitrate, as N Total Nitrite, as N Total Ammonia, as N Total Organic Nitrogen, as Total Nitrogen, as N Dissolved Orthophosphate, Total Phosphorus, as P	N as P	3 16.4 10.2 84 8.1 0.00 .00 .10 2.0 2.1 .03 .06	19 11.2 0.2 97 7.0 .00 .00 .40 1.2 1.6 .07 .08		
Secchi-Disc Visibility (ft Chlorophyll $\underline{a}$ (ug/L)	)	74.8	3		
Aquatic Macrophyte Coverage Littoral Zone Water-Surface Zone	e		50 pct <2 pct		
LAKE TROPHIC CLASSIFICATIO	<u>N</u>				
Characteristic Value			572		
Trophic State Index (Carlse TSISD TSITP TSICH)	on, 1977)		61 63 73		





Silver Lake, Pierce County. Photo taken August 2, 1974, view northwesterly. Bathymetric map from Washington Department of Game, date unknown.

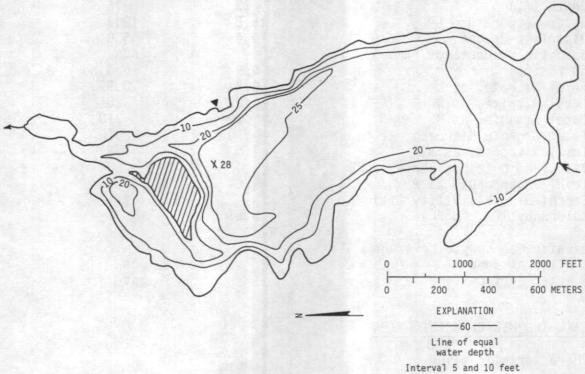
SPANAWAY LAKE	PIERCE COUNTY	WRIA	12

T19N-R03E-20 LATITUDE 470 07' 11" LONGITUDE 1220 26' 45"

PHYSICAL DATA			CULTURAL DATA		
Drainage area	17.0		Residential Development	80	pct
Altitude Lake Area		acres	Number of Nearshore Homes	161	
Lake Volume Mean Depth		acre-ft ft	Land Use in Drainage Basin		
Maximum Depth Shoreline Length	28 4.4	ft mi	Residential-Urban	5	pct
Shoreline Configuration	n 1.9		Residential-Suburban	38	pct
Development of Volume Bottom Slope	0.57 0.71		Agricultural Forest or Unproductive	0 54	pct pct
Surface Inflow Surface Outflow	Yes Yes		Lake Surface	3.	pc t
			Public Boat Access to Lake	•	Yes

Date	Jun	e 11, 1981	September	17, 1981
Depth (ft) Water Temperature (°C) Dissolved Oxygen Specific Conductance (umho) pH (units) Total Nitrate, as N Total Nitrite, as N Total Ammonia, as N Total Organic Nitrogen, as N Total Nitrogen, as N Dissolved Orthophosphate, as P	3 ft 16.6 9.0 114 7.0   	24 ft 11.2 0.2 122 6.7	3 ft 19.8  184 6.5 0.21 .03 .14 .82 1.2	25 ft 16.4  184 6.4 0.12 .04 .92 1.1 2.2 .20
Total Phosphorus, as P Secchi-Disc Visibility (ft) Chlorophyll <u>a</u> (ug/L)	1.62	22	.01	.29
Aquatic Macrophyte Coverage Littoral Zone Water-Surface Zone		15 pct 1 pct		pct pct
LAKE TROPHIC CLASSIFICATION				
Characteristic Value				87
Trophic State Index (Carlson, 1977 TSI <sub>SD</sub> TSI <sub>TP</sub> TSI <sub>Ch1</sub>	)	33  35		39 37 





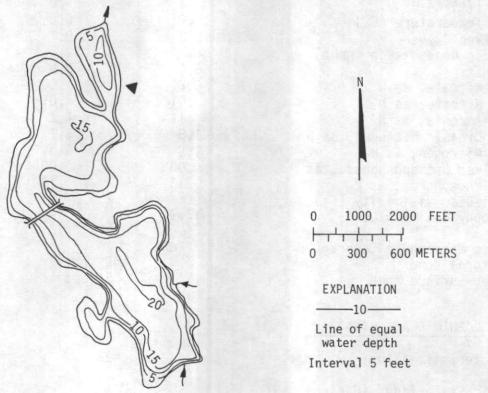
Spanaway Lake, Pierce County. Photo taken May 20, 1978.
Bathymetric map from Washington Department of Game, February 2, 1950.

T20N-R02E-34 LATITUDE 470 10' 40" LONGITUDE 1220 32' 04"

PHYSICAL DATA			CULTURAL DATA		
Drainage area	89.4		Residential Development	100	pct
Altitude	210				
Lake Area		acres	Number of Nearshore Homes	285	
Lake Volume		acre-ft			
Mean Depth	11	ft	Land Use in Drainage Basin		
Maximum Depth	20	ft			
Shoreline Length	5.7	mi	Residential-Urban	28	pct
Shoreline Configuration	2.3		Residential-Suburban	27	pct
Development of Volume	0.56		Agricultural	2	pct
Bottom Slope	2.8	pct	Forest or Unproductive	42	pct
Surface Inflow	Yes	•	Lake Surface	1	pct
Surface Outflow	Yes				•
			Public Boat Access to Lake		No

Date	June	10,	1 981
Depth (ft) Water Temperature (°C) Dissolved Oxygen Specific Conductance (umho) pH (units) Total Nitrate, as N Total Nitrite, as N Total Ammonia, as N Total Organic Nitrogen, as N Total Nitrogen, as N Dissolved Orthophosphate, as P Total Phosphorus, as P Secchi-Disc Visibility (ft) Chlorophyll a (ug/L)	3 16.0 10.4 134 6.9 0.84 .01 .04 .70 1.6 .02 .04	11	16 13.3 5.0 148 6.8 0.99 .01 .10 .70 1.8 .04
Aquatic Macrophyte Coverage Littoral Zone Water-Surface Zone  LAKE TROPHIC CLASSIFICATION		<1 <1	pct pct
Characteristic Value		104	
		104	
Trophic State Index (Carlson, 1977) TSI <sub>SD</sub> TSI <sub>TP</sub> TSI <sub>Ch1</sub>		43 57 43	•





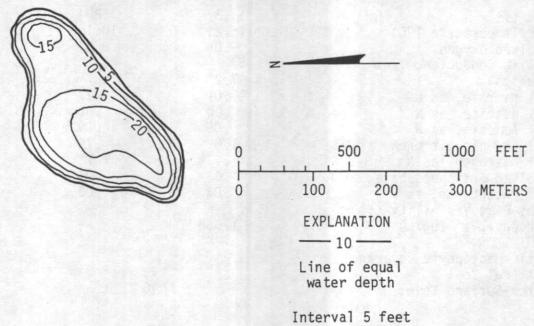
Steilacoom Lake, Pierce County. Photo taken June 26, 1979. Bathymetric map from Washington Department of Game, June 2, 1950.

STIDHAM LAKE		PIERCE COUNTY		WRIA	11	
T17N-R04E-22	LATITUDE	460 57' 08"	LONGITUDE	1220	16'	36"
PHYSICAL DATA		CULTURAL D	ATA			
		_				

Drainage area	0.12		Residential Development	0	pct
Altitude	655				
Lake Area	10	acres	Number of Nearshore Homes	0	
Lake Volume	120	acre-ft			
Mean Depth	12	ft	Land Use in Drainage Basin		
Maximum Depth	22	ft			
Shoreline Length	0.50	mi	Residential-Urban	0	pct
Shoreline Configuration	1.1		Residential-Suburban	0	pct
Development of Volume	0.56		Agricul tural	19	pct
Bottom Slope	-	pct	Forest or Unproductive	68	pct
Surface Inflow	No	•	Lake Surface	13	pct
Surface Outflow	Yes		24.0 04.1400		<b>F</b> –
Juliace outlion	.63		Public Roat Access to Lake		No

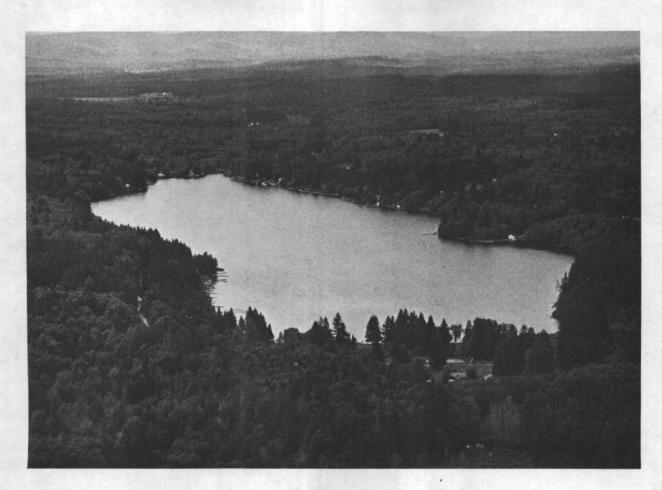
Date	June	3, 1981
Depth (ft) Water Temperature (°C) Dissolved Oxygen Specific Conductance (umho) pH (units) Total Nitrate, as N Total Nitrite, as N Total Ammonia, as N Total Organic Nitrogen, as N Total Nitrogen, as N Dissolved Orthophosphate, as P Total Phosphorus, as P Secchi-Disc Visibility (ft) Chlorophyll a (ug/L)	3 17.0 5.2 36 6.5 0.00 .01 .11 1.8 1.9 .00 .13	20 6.0 0.1 52 5.9 .00 .01 1.2 3.1 4.3 .00 .13
Aquatic Macrophyte Coverage Littoral Zone Water-Surface Zone  LAKE TROPHIC CLASSIFICATION		40 pct <5 pct
Characteristic Value		423
Trophic State Index (Carlson, 1977) TSI <sub>SD</sub> TSI <sub>TP</sub> TSI <sub>Chl</sub>		64 74 59

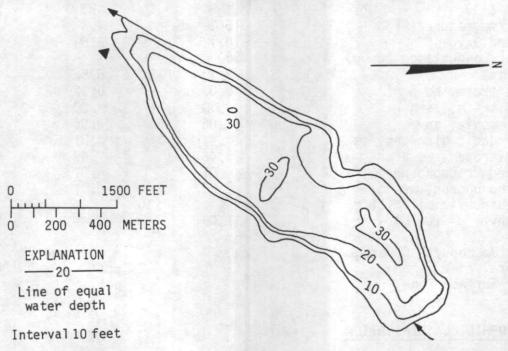




Stidham Lake, Pierce County. Photo taken June 3, 1981, view easterly. Bathymetric map from U.S. Geological Survey, June 20, 1973.

TANWAX LAKE		PIERCE CO	УТИИС		WRIA	11	
T17N-R04E-23	LATITUDE	460 561	40"	LONGITUDE	1220	16'	26"
PHYSICAL DATA		CULT	JRAL DA	ATA			
Drainage area	4.08 mi <sup>2</sup>	Resid	dential	Developme	ent	70	pct
Altitude Lake Area	600 ft 170 acres	Numbe	er of A	Nearshore I	lomes	69	
Mean Depth	3,300 acre-ft 20 ft 30 ft	Land	Use in	n Drainage	Basin		
	2.8 mi			ial-Urban		0	pct
Shoreline Configuration Development of Volume	0.65		siaenti riculti	ial-Suburba ural	an	6 24	pct pct
Bottom Slope Surface Inflow	5.1 pct No		rest oi ke Suri	r Unproduc <sup>.</sup> Face	tive	62 8	pct pct
Surface Outflow	Yes	Pub1	ic Boat	t Access to	o Lake		Yes
WATER-QUALITY DATA (in	milligrams pe			otherwise	indica	ted)	
			Julie E.	-			
Depth (ft) Water Temperature (OC)		3 16.2		20 10.1			
Dissolved Oxygen Specific Conductance (	ımho)	9.0 67		0.3 80			
pH (units)	J	7.2		6.7			
Total Nitrate, as N Total Nitrite, as N		0.01 .00		.17 .00			
Total Ammonia, as N		.08		.09			
Total Organic Nitrogen Total Nitrogen, as N	, as N	1.0 1.1		.79 1.1			
Dissolved Orthophospha	te, as P	.03		.04			
Total Phosphorus, as P Secchi-Disc Visibility	(f+)	.03		.05			
Chlorophyll <u>a</u> (ug/L)	(10)	17.5	8				
Aquatic Macrophyte Cove	erage			75			
Littoral Zone Water-Surface Zone				75 pct 10 pct			
				·			
LAKE TROPHIC CLASSIFICA	ATION						
Characteristic Value				253			
Trophic State Index (C	arlson, 1977)			57			
TSI <sub>SD</sub> TSI <sub>TP</sub>				53			
TSI chl				59			





Tanwax Lake, Pierce County. Photo taken June 23, 1981, view southwesterly. Bathymetric map from Washington Department of Game, June 26, 1952.

TAPPS LAKE	PIERCE COUNTY	WRIA 10
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T20N-R05E-08 LATITUDE 470 14' 18" LONGITUDE 1220 12' 11"

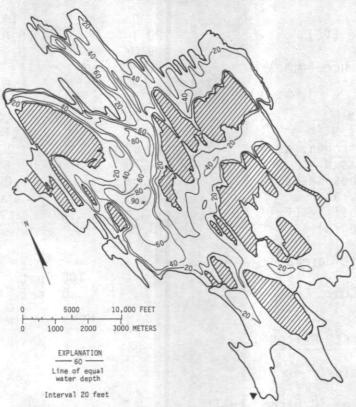
PHYSICAL DATA	CULTURAL	DATA
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Drainage area Altitude	 543	mi2	Residential Development	70	pct
Lake Area	2,700		Number of Nearshore Homes	650	
Mean Depth	25	ft	Land Use in Drainage Basin		
Maximum Depth Shoreline Length	42	ft mi	Residential-Urban		pct
Shoreline Configuration Development of Volume	on 5.7 0.28		Residential-Suburban Agricultural		pct
Bottom Slope	0.73	•	Forest or Unproductive		pct
Surface Inflow Surface Outflow	Yes Yes		Lake Surface		pct
			Dublic Post Accord to Lake	V	~~

Public Boat Access to Lake Yes

Date	June	24,	1 981
Depth (ft) Water Temperature (°C) Dissolved Oxygen Specific Conductance (umho) pH (units) Total Nitrate, as N Total Nitrite, as N Total Ammonia, as N Total Organic Nitrogen, as N Total Nitrogen, as N Dissolved Orthophosphate, as P Total Phosphorus, as P Secchi-Disc Visibility (ft) Chlorophyll a (ug/L)	3 15.1 10.1 55 7.1 0.01 .00 .06 .41 .48 .01 .02	10	83 7.4 8.0 61 6.8 0.12 .00 .06 .31 .49 .01
Aquatic Macrophyte Coverage Littoral Zone Water-Surface Zone  LAKE TROPHIC CLASSIFICATION		< 2 < 2	pct pct
		72	
Characteristic Value		73	
Trophic State Index (Carlson, 1977) TSI <sub>SD</sub> TSI <sub>TP</sub> TSI <sub>Ch1</sub>		44 47 31	





Tapps Lake, Pierce County. Photo taken June 23, 1981, view northerly. Bathymetric map from U.S. Geological Survey, May 31, 1974.